

position	40	45	50	55	60	65																				
MAW motif	i x t g x x x l d x a l x x G G l x x g x i v E i y																									
	<div> <div>α Helix B</div> <div>β Strand 1</div> </div>																									
<i>E. coli</i> RecA	I	S	T	G	S	L	S	L	D	I	A	L	G	A	G	G	L	P	M	G	R	I	V	E	I	Y
bacterial RecA	F	G	S	R	A	I	A	I	N	A		M	I		F	G					V	I		V	F	
	M	K			C	T	D	V		E		T	S		I	K					T					
	T	P			I	V	G			G			T		V	R										
	V				N	Y	L			L			V		Y											
	Y						M			N			Δ													
							T			Q																
							V			R																
							Y			S																
										T																
										V																
Rad51 & Dmcl	I	S	T	G	S	K	A	L	D	E	I	L	G	Δ	G	G	I	E	T	G	Q	I	T	E	A	F
	L	T				Q	E			K	L		Q				V	M		L	S			L		
						N				S										M				M		
						Q				T														V		
RecA/Rad51-like	F	R	S	A	D	D	A	F	D	D	A	L	A	G	G	G	F	E	A	A	G	A	I	E	F	A
	I	S	T	G	F	K	E	L	N	E	I		G	L			I	F	K	G	R	I	T	I	I	F
	L	T	W	K	I	L	G	M		G	L		N	Δ			L	P	P	H	S	L	V	L	L	G
	V			N	S	P	M	V		I	V		S	^			M	Q	S	Q	T	M	Y		V	V
				Q		Q	N			L							V	R	T	R	V	V			Y	
						R	T			R																
						T				T																
						V																				
MAW mutants										W	W			W			W									
										Y							Y									

Fig. 1

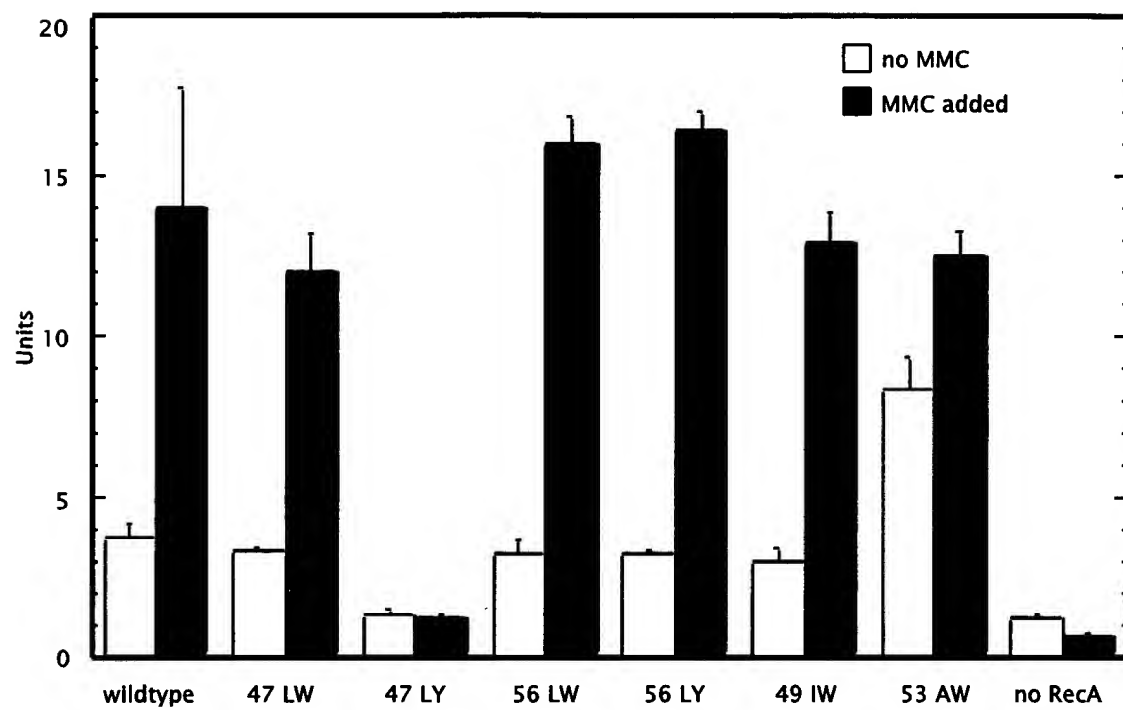


Fig. 2

I

II

III

IV

66720-203500

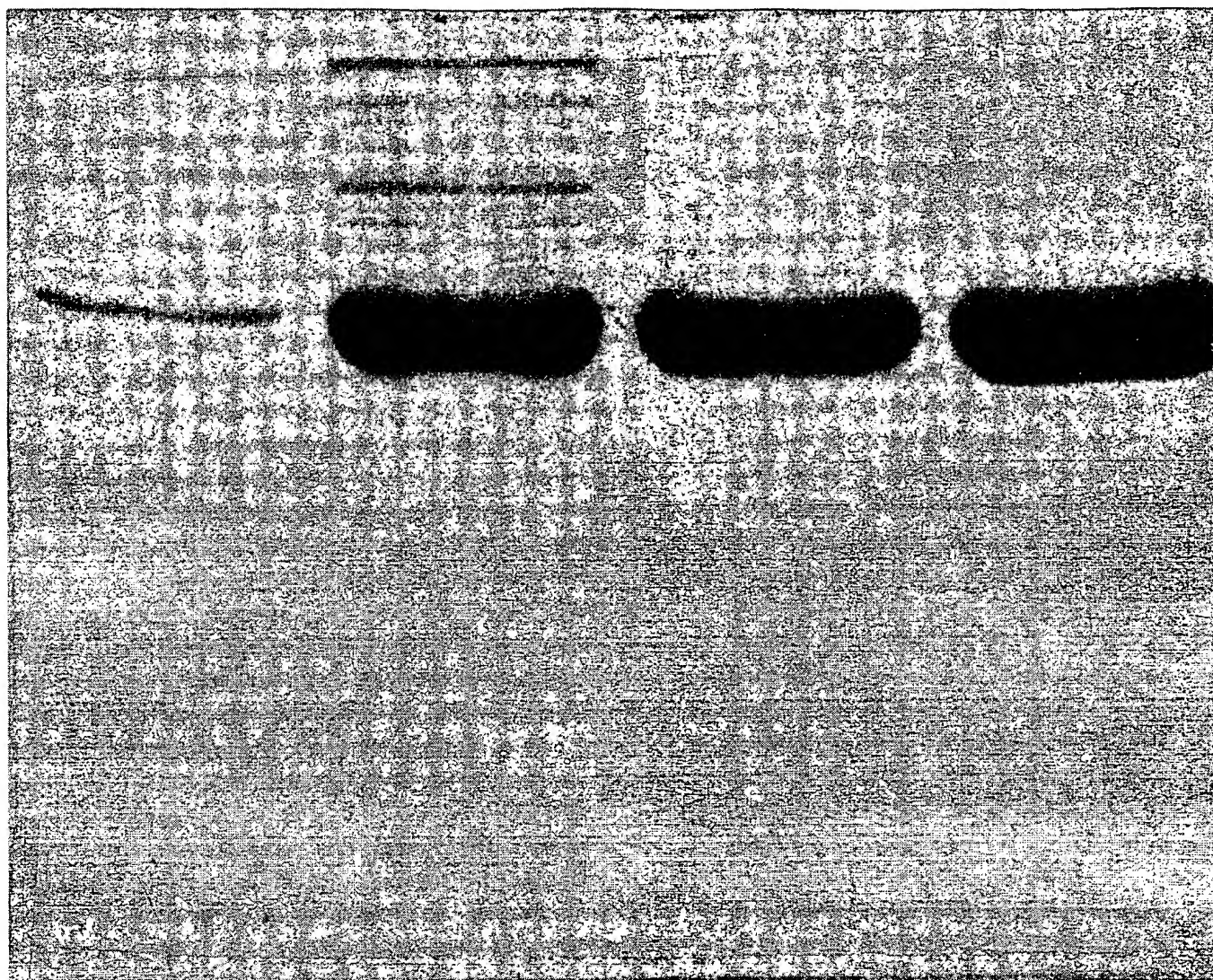


Fig. 3